

For Research Use Only

# TGFBR3-Specific Polyclonal antibody

Catalog Number: 20000-1-AP

Featured Product

7 Publications



## Basic Information

Catalog Number:

20000-1-AP

Size:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_003243

GeneID (NCBI):

7049

UNIPROT ID:

Q03167

Full Name:

transforming growth factor, beta receptor III

Calculated MW:

93 kDa

Observed MW:

110-150 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, mouse, goat

Positive Controls:

WB : A549 cells, A431 cells

## Background Information

Transforming growth factor  $\beta$  (TGF- $\beta$ ) is a multifunctional cytokine that plays important roles in normal development and homeostasis (PMID: 8530052). There are three TGF- $\beta$  forms: TGF- $\beta$  1, TGF- $\beta$  2, and TGF- $\beta$  3. The diverse effects of TGF- $\beta$  are mediated by the TGF- $\beta$  receptors and cell surface-binding proteins. Three TGF- $\beta$  receptors exist: TGFBR1, TGFBR2, TGFBR3 (PMID: 8530052; 30184463). TGFBR3, also known as betaglycan, is a transmembrane proteoglycan that often functions as a co-receptor with other TGF- $\beta$  receptor superfamily members. In addition to the transmembrane form, the extracellular domain of TGFBR3 can be cleaved to a soluble form (sTGFBR3), which may serve as an antagonist of TGF- $\beta$  to inhibit TGF- $\beta$  signaling (PMID: 30184463). TGFBR3 has a larger apparent molecular weight than the calculated molecular weight, due to extensive carbohydrate modifications (PMID: 1556106). This antibody is specific to TGFBR3.

## Notable Publications

Author	Pubmed ID	Journal	Application
Bingyu Xie	36179941	Mol Cell Endocrinol	WB
Wenxiang Zhu	34656907	Int Immunopharmacol	
Li-Yuan Yu-Lee	29514796	Cancer Res	WB,IF

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

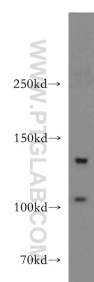
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



A549 cells were subjected to SDS PAGE followed by western blot with 20000-1-AP (TGFB $\beta$ 3-Specific antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.